

Dylan Rose-Coss
Geologist, Glorieta Geoscience Inc.

EXPERIENCE SUMMARY

1 Year of Experience Encompassing the Following Areas:

- CAFO facility monitoring well permitting, and installation
- Environmental and Water Right litigation support
- Environmental compliance with state and local agencies
- Water rights abstracting, evaluation and research
- Municipal water budgets and water use
- Groundwater discharge permits compliance and reporting for CAFO facilities.
- Multi-format research and technical reports
- Field work: Well siting, groundwater and soil sampling, aquifer pumping tests

SELECTED PROJECT EXPERIENCE

Sandia Pueblo Water right protest litigation support. Documented post 2003 surface water right transfers from the middle Rio Grande valley to Rio Rancho ground water use. Produced map showing location of each surface water transfer and tabulated quantity of water no longer diverted due to the transfers through each of the 4 major diversion canals on the middle Rio Grande.

Dairy/CAFO Environmental Monitoring, NM Provide consulting services to dairy facilities for compliance with groundwater discharge permits and environmental monitoring. Preparation of quarterly compliance reports to state agencies. Data verification and validation through GGI's own online aggregate system CAFOweb for data management of water quality, water usage and nutrient management.

Glorieta 2.0 Inc., Santa Fe County, NM Analysis of facility water use including input and output of water to a lake in order to create a water budget for County permitting. Drinking water system environmental compliance and permitting. Analysis of the property's soils and geology.

Bull Enterprises Litigation support, documented and researched potential environmental contamination of leafy greens as defense support in a class action lawsuit. Created numerous figures documenting location and potential cause of salmonella contamination at leafy green farms in Imperial Valley California.

Quintana Farms conducted a 48-hr pumping test with 3 monitoring wells on to determine water availability and aquifer parameters for previously irrigated acreage near Wagon Mound NM

Corrales and P7 Dairies Well design and drilling oversight for 4 new monitoring wells at Corrales Dairy and 2 new monitoring wells at P7 Dairy. Oversaw the plugging and abandonment of 6 monitoring wells and the repair of one monitoring well between both Dairies.

Previous Work Experience

Southwest Partnership for Carbon Sequestration (2014 – 2017):

- Lead characterization geologist on DOE-funded carbon sequestration Project
- Petrophysical modeling, core and lithologic description, wireline log analysis



Previous Work Experience

Instructor at New Mexico Institute of Mining and Technology (Summer 2016):

- Instructed Petroleum Geology course
- Lab assistant for Mineralogy course

Noble Energy International New Ventures Intern (Summer 2015)

- Synthesized large data sets of wire-line logs, core, gravity and seismic data
- Created depositional and structural maps to assess reservoir type, presence and quality in unexplored area

New Mexico Environment Department Intern (Summer 2005, 2013)

- Air Quality reports and enforcement division
- Solid Waste Division

EDUCATION

M.S. Geology, New Mexico Institute of Mining and Technology 2014-2017

B.S. Earth and Environmental Science, University of New Mexico, 2011-2012

B.S. Environmental Science, University of New Mexico, 2004-2008

PROFESSIONAL DEVELOPMENT AND TRAINING

- IHS Petra software basics
- Stanford online course "Reservoir Geomechanics"
- Fracture studies LLC short course on interpreting fractures in core
- Schlumberger software "Petrel Geology"
- SPE's student paper competition state champion and regional competitor

SELECTED PUBLICATIONS

Rose-Coss, D. Trujillo, N. Mozley, P. Heath, J. Cather, 2016, M. Mudstone Facies, Diagenesis, and Sequence Stratigraphic Interpretation for Caprock Integrity Assessment of the Upper Morrow Shale and Atokan Thirteen Finger Limestone, Farnsworth Unit, Texas. Presented at SEPM/AAPG Research Conference "Mudstone Diagenesis" Santa Fe, New Mexico, USA, 16-19 October 2016

Rose-Coss, D. Ampomah, W. Cather, M. Balch, R.S. Mozley, P. Rasmussen, L. 2016, An Improved Approach for Sandstone Reservoir Characterization. Paper SPE-180375-MS presented at the SPE Western Regional Meeting, Anchorage, Alaska, USA, 23–26 May 2016.

Rose-Coss, D. Ampomah, W. Hutton, A. Gragg, E. Mozley, P. Balch, B. Grigg, R., 2015, Geologic Characterization for CO₂-EOR Simulation: A Case Study of the Farnsworth Unit, Anadarko Basin, Texas. Oral presentation #80484 AAPG annual conference Denver 2015.

Ampomah, W., Balch, R., Cather, M., **Rose-Coss, D.**, Dai, Z., Heath, J., Dewers, T., Mozley, P., 2016, Evaluation of CO₂ Storage Mechanisms in CO₂ Enhanced Oil Recovery Sites: Application to Morrow Sandstone Reservoir. Energy & Fuels 2016 v. 30, p. 8545-8555.

Ampomah, W., Balch, R.S., **Rose-Coss, D.**, Hutton, A., and Will, R., 2016b, An Integrated Approach for Characterizing a Sandstone Reservoir in the Anadarko Basin: paper OTC-26952-MS presented at Offshore Technology Conference held in Houston-Texas USA, May 2-5.

